

# Compensary Afforestation Scheme for double degraded area

Annexure-19

Diversion of 1.90 ha. Reserved/ Protected-Forest land for grant permission for laying GFGNL OFC line along at Moti Singloti To Samot, Juna mosda To Dumkhal, Kanbipitha To Devmogra, Gangapur, Sukaval, Bogaj To Fulsar of Narmada District lieu of 1.90 ha. of forest land to be diverted for diversion of Gujarat Fiber Grid Network Ltd, Gandhinagar forest Area under Narmada Forest Division, Narmada.

Detailed scheme of Compensatory Afforestation for degraded area 4.00 ha. to be carried out in lieu of 1.90 ha. of Reserved/Protected forest land to be diverted in Narmada district.

## 1. Details of degraded land.

Village	Amalipani / Kalmkuva
Taluka	Dediyapada
Range	Sorapada
District	Narmada
Division	Narmada
Block/ Patal, Compartment No.	408 Old; 348 New
Area to be afforested	4.00 Ha.
Working circle	Plantation

## 2. Description of Area.

Soil type	Marramy, stony
Topography	Plain
Slope	Medium & Gentle
Whether the area is bearing any root stock of Vegetation	Yes

## 3. Name of Plantation Programme:-

Compensatory Afforestation Scheme for Degraded Area.

## 4. Schedule of Plantation Programme:-

- The Compensatory Afforestation on degraded area would be started by Dy.Conservator of Forest Narmada Division as early as possible after the proposal is formally approved.
- Compensatory Afforestation will be done in 4.00 ha.area. The total afforestation cost will be about **Rs.20,80,400/-** Gujarat Fiber Grid Network Limited, Gandhinagar has given an undertaking to pay the cost of Compensatory Afforestation as per the prevailing wages (including the price escalation and supervision charges).

# Technical Details:-

Technical details of Compensatory Afforestation are as Follows:


Sr. No.	Details	Specifications																														
a	General Details	The C.A. will be taken under Compensatory Afforestation for double land on degraded Forest Areas. The prevailing wage rate is 310.40 per day.																														
b	Spacing	3 X 3 mtr., 1111 plants per ha.																														
c	Species to be planted (No. of plants per ha.)	<table> <tr> <th data-bbox="558 470 1021 526">Species</th><th data-bbox="1021 470 1157 526">No.</th><th data-bbox="1157 470 1356 526">Height (cm)</th></tr> <tr> <td data-bbox="558 526 1021 571">Khair</td><td data-bbox="1021 526 1157 571">200</td><td data-bbox="1157 526 1356 571">65</td></tr> <tr> <td data-bbox="558 571 1021 616">Teak</td><td data-bbox="1021 571 1157 616">300</td><td data-bbox="1157 571 1356 616">Stump of minimum 6cm girth</td></tr> <tr> <td data-bbox="558 616 1021 660">Bamboo</td><td data-bbox="1021 616 1157 660">100</td><td data-bbox="1157 616 1356 660">50</td></tr> <tr> <td data-bbox="558 660 1021 705">Bahedo, Herde, Aritha</td><td data-bbox="1021 660 1157 705">100</td><td data-bbox="1157 660 1356 705">65</td></tr> <tr> <td data-bbox="558 705 1021 750">Haldu, Sadad, Arjun Sadad</td><td data-bbox="1021 705 1157 750">100</td><td data-bbox="1157 705 1356 750">90</td></tr> <tr> <td data-bbox="558 750 1021 795">Bhilamo, Kadayo, Sadad, Tandol etc.</td><td data-bbox="1021 750 1157 795">100</td><td data-bbox="1157 750 1356 795">90</td></tr> <tr> <td data-bbox="558 795 1021 840">Albizzia, Ficus, Jamun, Anjan, Neem, etc.</td><td data-bbox="1021 795 1157 840">100</td><td data-bbox="1157 795 1356 840">75</td></tr> <tr> <td data-bbox="558 840 1021 884">Bordi, Karanj, Khakhro &amp; others</td><td data-bbox="1021 840 1157 884">111</td><td data-bbox="1157 840 1356 884">65</td></tr> <tr> <td data-bbox="558 884 1021 929"><b>Total</b></td><td data-bbox="1021 884 1157 929"><b>1111</b></td><td data-bbox="1157 884 1356 929"></td></tr> </table>	Species	No.	Height (cm)	Khair	200	65	Teak	300	Stump of minimum 6cm girth	Bamboo	100	50	Bahedo, Herde, Aritha	100	65	Haldu, Sadad, Arjun Sadad	100	90	Bhilamo, Kadayo, Sadad, Tandol etc.	100	90	Albizzia, Ficus, Jamun, Anjan, Neem, etc.	100	75	Bordi, Karanj, Khakhro & others	111	65	<b>Total</b>	<b>1111</b>	
Species	No.	Height (cm)																														
Khair	200	65																														
Teak	300	Stump of minimum 6cm girth																														
Bamboo	100	50																														
Bahedo, Herde, Aritha	100	65																														
Haldu, Sadad, Arjun Sadad	100	90																														
Bhilamo, Kadayo, Sadad, Tandol etc.	100	90																														
Albizzia, Ficus, Jamun, Anjan, Neem, etc.	100	75																														
Bordi, Karanj, Khakhro & others	111	65																														
<b>Total</b>	<b>1111</b>																															
d	Nursery Technique	Nine months old polypot raised plants will be planted at the onset of monsoon.																														
e	Site Preparation	The malformed rootstock present in the area will be cutback & the site will be cleaned in the month of Nov-Dec. Alignment & pit digging 45 x 45 x 45 cms. will be carried out in the month of Dec-Jan.																														
f	Plantation Method	Polypot raised plants will be planted during monsoon.																														
g	Soil & Moisture Conservation Works	(i) Pucca structure like Check dam, check wall, retaining wall (ii) Contour trenches 2.00 x 0.45 x 0.30, 300 Nos/ha. will be dug along the contour line. the dug out soil will be heaped on the down ward side. Gully plugging & Nala Banding using The loose stone available in the area will be carried out as per requirement. Seeds of Jatropha, Agave plants ...etc. will be planted during monsoon in the upper side of nala as per suitability.																														
h	Protection Trench	Barbed wire fencing, Seed sowing And planting of cuttings of Ipomea/Glarcidia along the fence																														
i	Silvicultural Operations	1 <sup>st</sup> year three weeding soil working, Support watering will be provided if needed. 2 <sup>nd</sup> year two weeding soil working. 3 <sup>rd</sup> year one weeding soil working.																														
j	Maintenance	It is proposed to maintain the Plantation up to ten years.																														
k	Subsequent silvicultural Operation	Cleaning, cutbacks, thinning etc. (as per species specific requirement) will be carried out at the age as per prescribed in the working plan.																														

# Technical Details:-

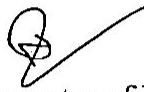
Technical details of Compensatory Afforestation are as Follows:

Sr. No.	Details	Specifications																														
a	General Details	The C.A. will be taken under Compensatory Afforestation for double land on degraded Forest Areas. The prevailing wage rate is 310.40 per day. 3 X 3 mtr., 1111 plants per ha.																														
b	Spacing																															
c	Species to be planted (No. of plants per ha.)	<table> <tr> <th></th><th></th><th>Height (cm)</th></tr> <tr> <td>Khair</td><td>200</td><td>65</td></tr> <tr> <td>Teak</td><td>300</td><td>Stump of minimum 6cm girth</td></tr> <tr> <td>Bamboo</td><td>100</td><td>50</td></tr> <tr> <td>Bahedo, Herde, Aritha</td><td>100</td><td>65</td></tr> <tr> <td>Haldu, Sadad, Arjun Sadad</td><td>100</td><td>90</td></tr> <tr> <td>Bhilamo, Kadayo, Sadad, Tandol etc.</td><td>100</td><td>90</td></tr> <tr> <td>Albizzia, Ficus, Jamun, Anjan, Neem, etc.</td><td>100</td><td>75</td></tr> <tr> <td>Bordi, Karanj, Khakhro &amp; others</td><td>111</td><td>65</td></tr> <tr> <td><b>Total</b></td><td><b>1111</b></td><td></td></tr> </table>			Height (cm)	Khair	200	65	Teak	300	Stump of minimum 6cm girth	Bamboo	100	50	Bahedo, Herde, Aritha	100	65	Haldu, Sadad, Arjun Sadad	100	90	Bhilamo, Kadayo, Sadad, Tandol etc.	100	90	Albizzia, Ficus, Jamun, Anjan, Neem, etc.	100	75	Bordi, Karanj, Khakhro & others	111	65	<b>Total</b>	<b>1111</b>	
		Height (cm)																														
Khair	200	65																														
Teak	300	Stump of minimum 6cm girth																														
Bamboo	100	50																														
Bahedo, Herde, Aritha	100	65																														
Haldu, Sadad, Arjun Sadad	100	90																														
Bhilamo, Kadayo, Sadad, Tandol etc.	100	90																														
Albizzia, Ficus, Jamun, Anjan, Neem, etc.	100	75																														
Bordi, Karanj, Khakhro & others	111	65																														
<b>Total</b>	<b>1111</b>																															
d	Nursery Technique	Nine months old polypot raised plants will be planted at the onset of monsoon.																														
e	Site Preparation	The malformed rootstock present in the area will be cutback & the site will be cleaned in the month of Nov-Dec. Alignment & pit digging 45 x 45 x 45 cms. will be carried out in the month of Dec-Jan.																														
f	Plantation Method	Polypot raised plants will be planted during monsoon.																														
g	Soil & Moisture Conservation Works	(i) Pucca structure like Check dam, check wall, retaining wall (ii) Contour trenches 2.00 x 0.45 x 0.30, 300 Nos/ha. will be dug along the contour line. the dug out soil will be heaped on the down ward side. Gully plugging & Nala Banding using The loose stone available in the area will be carried out as per requirement. Seeds of Jatropha, Agave plants ...etc. will be planted during monsoon in the upper side of nala as per suitability.																														
h	Protection Trench	Barbed wire fencing, Seed sowing And planting of cuttings of Ipomea/Glarcidia along the fence																														
i	Silvicultural Operations	1 <sup>st</sup> year three weeding soil working, Support watering will be provided if needed. 2 <sup>nd</sup> year two weeding soil working. 3 <sup>rd</sup> year one weeding soil working.																														
j	Maintenance	It is proposed to maintain the Plantation up to ten years.																														
k	Subsequent silvicultural Operation	Cleaning, cutbacks, thinning etc. (as per species specific requirement) will be carried out at the age as per prescribed in the working plan.																														

<p>1</p> <p>Proposed monitoring mechanism</p>	<p>(i) A plantation register is to be maintained.</p> <p>(ii) Monitoring is to be done as per the following norms.</p> <p>Forester – 100%</p> <p>RFO – 100%</p> <p>ACF – 20%</p> <p>DCF – 10%</p> <p>(iii) The results of survival etc. are maintained in the plantation register on a periodical basis, which is updated at the end of September and March each year.</p> <p>(iv) The collar girth is also to be reordered at the end of each year.</p> <p>(v) At the end of maintenance period, the area is aimed at full stocking and pole crop girth for all the species, except bamboo.</p> <p>(vi) Bamboo would be of the harvestable size by the end of 4<sup>th</sup> year.</p> <p>(vii) Third party monitoring mechanism is also in the State and if the plantation is in the sample selected, it will also be monitored by the third party selected for this purpose.</p>
<p>m</p> <p>Regeneration cleaning</p>	<p>Cut-back and promotion of root suckers.</p>
<p>n</p> <p>Silviculture &amp; other activities</p>	<p>Only afforestation aimed plantation will be taken up, as the area falls under degraded forest land.</p>

  
 Dy. Conservator of Forest  
 Narmada

The Compensatory Afforestation scheme at the cost of **Rs.20,80,400/-** is technically and administrative approved by the undersigned.

  
 Dy. Conservator of Forest  
 Narmada

Compensatory Afforestation Scheme for double degraded area under FCA proposa Diversion of 1.90 ha. Reserved/ Protected Forest land for grant permission for laying GFGNL OFC line along at Moti Singloti To Samot, Juna mosda To Dumkhal, Kanbipitha To Devmogra, Gangapur, Sukaval, Bogaj To Fulsar of Narmada District lieu of 1.90 ha. of forest land to be diverted for diversion of Gujarat Fiber Grid Network Ltd, Gandhinagar forest Area under Narmada Forest Division, Narmada.

Daily wages Rs.310.40

Spacemnts = 3 m x 3 m

1111 seedling / Ha

1st year replacement 10 % = 111 seedling /ha

2nd year replacement 20 % = 111+111 seedling /ha

3rd year replacement 10 % = 111 seedling /ha

Total Seedlings = 1333 seedling /ha

Polypot size : 15 cm x 25 cm x 200

Item of work	Qty.	Labour	Material	Total
1	2	3	4	5.00
0 year				
Nursery				
(a) Cost of soil, ,manure, seeds, water, fertillizer, insecticides, implements, rent of lands. Shade, etc. (including 10 % for casualty replacement)	1222	0.00	1830	1830.00
(b) labour : Preparation of beds, filling and arranging of bags,showing of seeds, watering shifting, weeding etc.	1222	4478.00	232	4710.00
(c ) Seedling cost for casualty replacement in one year old (20%)	222	1415.00	422	1837.00
(d) Seedling cost for casualty replacement in two year old (10%)	111	709.00	211	920.00
Total		6602.00	2695	9297.00
2. Area Development ( Land Preparation )		0.00	0	0.00
(a) Survey, cutback and promotion of root suckers		3364.00	0	3364.00
(b) Aligment and digging of pits 0.45 X 0.45 X 0.45	1111@ 6.00	9715.00	0	9715.00
Total		13079.00	0	13079.00
(a) Natural fertilizer (Neem cake/ Castor cake)	1111 @ 5.00	0.00	9910	9910.00
Total		0.00	9910	9910.00
3. SMC Works		0.00	0	0.00
(a) Check wall/ retaining wall /checkdem (all pucca only)	L.S.	11952.00	23726	35678.00
(b) Contour trench 2 M x 45 Cm x 30 Cm as per Rs.17.00/rmt (300 trench)	600 rmt.	9097.00	0	9097.00
Total		21050.00	23726	44776.00
4. Protection		0.00	0	0.00
(a) Barbed wire fencing	L.S.	3568.00	35678	39246.00

(b) Seed sowing and planting of cuttings of Ipomea/ Gloriosa along the fence		1110.00	477	1587.00
<b>Total</b>		<b>4678.00</b>	<b>36155</b>	<b>40833.00</b>
<b>Sub Total of 0 year</b>		<b>45409.00</b>	<b>72485</b>	<b>117893.00</b>
<b>1st Year</b>		0.00	0	0.00
(a) Maintenance of nursery (April to June)	1222	3435.00	343	3778.00
(b) Transport of seedling for plantation	1111	18594.00	389	18283.00
(c) Planting with khamna of Min 1 m dia	1111	5791.00	0	5791.00
(d) Transport of seedling for casualty replacement	111	201.00	44	245.00
(e) 3 weeding cum soil working	1111	23583.00	0	23583.00
(f) Support watering 5 times @ 3.25		14430.00	20706	35136.00
(g) Protection / tending operation		4649.00	0	4649.00
(h) Tending to natural vegetation		1167.00	0	1167.00
(i) Contingency		0.00	1167	1167.00
<b>Total for 1st year</b>		<b>54154.00</b>	<b>22652</b>	<b>76806.00</b>
<b>2nd Year</b>		0.00	0	0.00
(a) 2 weeding & soil working		12669.00	0	12669.00
(b) 20 % Casually replcement, transport and planting	111+111	211.00	1049	1260.00
(c) Natural fertilizer (neem cake / caster cake ) etc.	Rs.5/ plant	0.00	11711	11711.00
(d ) Support watering 3 times @ 3.25		9377.00	13459	22836.00
(e) Protection / tending operation		5060.00	0	5060.00
<b>Total for 2nd year</b>		<b>0.00</b>	<b>26220</b>	<b>1830.00</b>
<b>3rd Year</b>		0.00	0	0.00
(a) 2 weeding & soil working		13372.00	0	13372.00
(b) 10 % Casually replcement, transport and planting	111	113.00	566	679.00
(c) Natural fertilizer, neem cake etc.	Rs.5/ plant	0.00	12838	12838.00
(d ) Support watering 1 times @ 3.25		3367.00	4831	8198.00
(e) Protection & maintenance of fencing / tending operation	L.S.	8743.00	0	8743.00
<b>Total for 3rd year</b>		<b>25595.00</b>	<b>18235</b>	<b>43830.00</b>
<b>4thYear</b>		0.00	0	0.00
(a) 1 weeding & soil working		7384.00	0	7384.00
(b) Protection & Maintenance of fencing/ Tending operation	L.S.	7298.00	0	7298.00
<b>Total for 4th year</b>		<b>14682.00</b>	<b>0</b>	<b>14682.00</b>
<b>5thYear</b>		0.00	0	0.00
Protection & maintenance of fencing/ tending operation	L.S.	7785.00	0	7785.00
<b>Total for 5th year</b>		<b>7785.00</b>	<b>0</b>	<b>7785.00</b>
<b>6thYear</b>		0.00	0	0.00

Protection & maintenance of fencing/ tending operation	L.S.	8271.00	0	8271.00
<b>Total for 6th year</b>		<b>8271.00</b>	<b>0</b>	<b>8271.00</b>
7th Year				
Protection & maintenance of fencing/ tending operation	L.S.	0.00	0	8271.00
<b>Total for 7th year</b>		<b>8758.00</b>	<b>0</b>	<b>0.00</b>
8th Year				
Protection & maintenance of fencing/ tending operation	L.S.	8758.00	0	8758.00
<b>Total for 8th year</b>		<b>0.00</b>	<b>0</b>	<b>8758.00</b>
9th Year				
Protection & maintenance of fencing/ tending operation	L.S.	9243.00	0	0.00
<b>Total for 9th year</b>		<b>9243.00</b>	<b>0</b>	<b>9243.00</b>
10th Year				
Protection & maintenance of fencing/ tending operation	L.S.	0.00	0	0.00
<b>Total for 10th year</b>		<b>9730.00</b>	<b>0</b>	<b>9730.00</b>
<b>SUB TOTAL :</b>		<b>293745.00</b>	<b>139592</b>	<b>433337.00</b>
The Cost of Supervision/subsequential silvicultureal Operations	20%	58749.00	27918	86667.00
		<b>352494.00</b>	<b>167511</b>	<b>520005.00</b>

Say 1.00 ha CA - Rs.5,20,100/-


**Note :-**

- (1) Seed sowing along fencing towards the inner side, and also in the
- (2) Planting of cutting of ipomea//Gliricidia along the fencing towards

Compensatory afforestation will be done in 1.00 ha. Area.

**Total Cost Rs. : 520100**

Ha	Total
4	2080400


  
Dy. Conservator of Forest  
Narmada

**Statement showing the details of degraded forest area identified for the Compensation for afforestation**

Sr. No.	District	Taluka	Village	Comp. No.	Total Area Ha.	Area in Degraded forest in other scheme Ha.	Area under this Scheme Ha.	Balance area Ha.
1	2	3	4	5	6	7	8	9
1	Narmada	Dediyapada	Amalipani / Kalmkuva	Old: 408 New:348	255.69	4.00	4.00	247.69

Place :-Rajpipla

Date :- - - 2020

  
Dy. Conservator of Forests  
Narmada